

**Acronyms and Abbreviations**

A	adenine	IARC	International Agency for Research on Cancer
AA	aristolochic acid	IDLH	immediately dangerous to life and health
AAN	aristolochic acid nephropathy	IgG	immunoglobulin G
ACGIH	American Conference of Governmental Industrial Hygienists	IL	interleukin
ADH	alcohol dehydrogenase	IL-3	interleukin-3
ATSDR	Agency for Toxic Substances and Disease Registry	ISO	International Organization for Standardization
BEN	Balkan endemic nephropathy	JM	Johns Manville
BRCA	breast cancer susceptibility proteins	$K_{dis}$	dissolution rate
C	cytosine	$K_{ow}$	octanol-water partition coefficient
CAS	Chemical Abstracts Service	LET	linear energy transfer
CAS No.	Chemical Abstracts Service Registry number	MCA 38	murine colon adenocarcinoma cell line
CDC	Centers for Disease Control and Prevention	MCL	maximum contaminant level
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	min	minute(s)
CERHR	Center for Evaluation of Risks to Human Reproduction	MMVF	man-made (or machine-made) vitreous fibers
CFR	Code of Federal Regulations	mol wt	molecular weight
CHO	Chinese hamster ovary	N/A	not applicable
CI	confidence interval	NADPH	nicotinamide adenine dinucleotide phosphate, reduced form
C.I.	Colour Index	NAICS	North American Industrial Classification System
COX	cyclooxygenase	NCI	National Cancer Institute
CPSC	Consumer Product Safety Commission	NHANES	National Health and Nutrition Examination Survey
CYP	cytochrome P450	NIEHS	National Institute of Environmental Health Sciences
2,4-D	2,4-dichlorophenoxyacetic acid	NIH	National Institutes of Health
dA-AAI	7-(deoxyadenosin- <i>N</i> 6-yl)-aristolactam I	NIOSH	National Institute for Occupational Safety and Health
dA-AAII	7-(deoxyadenosin- <i>N</i> 6-yl)-aristolactam II	NNK	4-( <i>N</i> -nitrosomethylamino)-1-(3-pyridyl)-1-butanone
DDD	1,1-dichloro-2,2-bis( <i>p</i> -chlorophenyl)ethane	NNN	<i>N</i> -nitrosornicotine
DDE	1,1-dichloro-2,2-bis( <i>p</i> -chlorophenyl)ethylene	No.	number
DDT	dichlorodiphenyltrichloroethane	NOHS	National Occupational Hazard Survey
dec	decomposes (used to indicate when a substance decomposes at its boiling point or melting point)	NR	not reported
dG	deoxyguanosine	NRC	Nuclear Regulatory Commission
dG-AAI	7-(deoxyguanosin- <i>N</i> 2-yl)-aristolactam I	NTP	National Toxicology Program
dG-AAII	7-(deoxyguanosin- <i>N</i> 2-yl)-aristolactam II	OR	odds ratio
DHHS	Department of Health and Human Services	OSHA	Occupational Safety and Health Administration
DHP	dihydropyrrolizine	PAH	polycyclic aromatic hydrocarbon
DMDTC	dimethyldithiocarbamate	PEL	permissible exposure limit
DNA	deoxyribonucleic acid	PHS	Public Health Service
DNT	dinitrotoluene	$pK_b$	dissociation constant
DOE	Department of Energy, United States	PVC	polyvinyl chloride
DOT	Department of Transportation, United States	<i>r</i>	correlation coefficient
ed.	edition, editor(s)	$r^2$	coefficient of determination, a statistical measure of goodness of fit of a model
EPA	Environmental Protection Agency, United States	<i>R</i> -DHP	<i>R</i> -dihydropyrrolizine, also called dehydroretronecine
EPCRA	Emergency Planning and Community Right-to-Know Act	REL	recommended exposure limit
F344	Fischer 344 (rats)	RNA	ribonucleic acid
FANC	Fanconi anemia complementation group proteins	RoC	Report on Carcinogens
FDA	Food and Drug Administration, United States	ROS	reactive oxygen species
FEMA	Federal Emergency Management Agency	RQ	reportable quantity
G	guanine	RR	relative risk (risk ratio or rate ratio)
GST	glutathione <i>S</i> -transferase	s	second
GST-P+	glutathione <i>S</i> -transferase placental form positive	S&S	Schleicher & Schuell
h	hour(s)	<i>S</i> -DHP	<i>S</i> -dihydropyrrolizine, also called dehydroheliotridine
HBeAg	hepatitis B e antigen	SIR	standardized incidence ratio
HBsAg	hepatitis B surface antigen	SMR	standardized mortality ratio
HCA	heterocyclic amine	spp.	species (plural)
HIV	human immunodeficiency virus	STEL	short-term exposure limit
HPLC	high performance liquid chromatography	suppl.	supplement
HUD	Housing and Urban Development	T	thymine
		TCLP	toxicity characteristic leaching procedure
		TLV	threshold-limit value
		TNT	trinitrotoluene
		TPQ	threshold planning quantity
		TRI	Toxics Release Inventory

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TSCA	Toxic Substances Control Act
TSNA	tobacco-specific nitrosamine(s)
TWA	time-weighted average
USDA	United States Department of Agriculture
UV	ultraviolet
UVR	ultraviolet radiation
VOC	volatile organic chemical
vol.	volume
v/v	volume-volume ratio
WC	tungsten carbide
WHO	World Health Organization
wt.	weight
yr	year